### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	東晃	PCT					
То	APA 13, 2005 <b>PCT</b>						
YAMADA Ryuichi	WE TEN OPINION OF THE						
TOKO International Patent Office	INTERNATIONAL SEARCHING AUTHORITY						
Hasegawa Bldg. 4F 7-7	(PCT Rule 43 <i>bis</i> .1)						
Toranomon 3-chome, Minato-ku, Tokyo 105-0001 Japan							
-	Date of mailing						
	(day/month/year)	12. 4. 2	2005				
Applicant's or agent's file reference	FOR FURTHER ACTION						
10003484WO01 International application No. International filing date	See paragraph 2 below  e (day/month/year) Priority date (day/month/year)						
International application No. PCT/JP2004/019690 International filing date 22.12.		24.12.2	·				
International Patent Classification (IPC) or both national classific	ation and IPC						
Int.Cl' G03G 15/20, H05B 6/14							
Applicant							
CANON KABUSHIKI KAISHA							
1. This opinion contains indications relating to the following ite	ems:						
Box No. I Basis of the opinion		•					
Box No. II Priority							
Box No. III Non-establishment of opinion with reg	ard to novelty, invent	ve step and industrial appl	licability				
Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain documents cited							
Box No. VII Certain defects in the international app	olication	٠					
Box No. VIII Certain observations on the internation	nal application						
2. FURTHER ACTION							
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.							
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
For further options, see Form PCT/ISA/220.							
3. For further details, see notes to Form PCT/ISA/220.							
Date of completion of this opinion							
Name and mailing address of the ISA/JP	Authorized officer		2C 3203				
Japan Patent Office	Masaaki S	UGATOH					
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Form PCT/ISA/237 (cover sheet) (January 2004)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/019690

Box	No. I	Basis of the opinion	
1.	which it	t was filed, unless otherwise indicated under this item. his opinion has been established on the basis of a trans	on the basis of the international application in the language in lation from the original language into the following language ation furnished for the purposes of international search (under
	Ru	ules 12.3 and 23.1(b)).	
	claimed in	invention, this opinion has been established on the basis	disclosed in the international application and necessary to the of:
	a. type of	of material	
		a sequence listing	
	一	table(s) related to the sequence listing	
	لسا		
	b. format	at of material	
		in written format	
	$\Box$	in computer readable form	
		•	
	c. time o	of filing/furnishing	
		contained in the international application as filed.	
	$\Box$	filed together with the international application in c	omputer readable form.
	Ħ	furnished subsequently to this Authority for the pur	-
3.	file		opy of a sequence listing and/or table relating thereto has been nation in the subsequent or additional copies is identical to that lication as filed, as appropriate, were furnished.
	4 1 114		7
4.	Addition	onal comments:	
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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/019690

DOX		citations and explanat		ting such statement	
1.	Statemen	t			
	Novel	ty (N)	Claims	1-5	YES
		• • •	Claims		NO
	Inven	tive step (IS)	Claims	3	YES
			Claims	1,2,4,5	NO
	Indust	trial applicability (IA)	Claims	1-5	YES
			Claims		NO

- 2. Citations and explanations
  - D1: JP 2000-039797 A(MATSUSHITA GRAPHIC COMMUNICATION SYSTEMS, Inc.), 2000.02.08, line 15, column 6 to line 6, column 7, lines 11-44 column 8, Fig 3(a) (Family:none)
  - D2: Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 117773/1989(Laid-open No. 56960/1991) (RICOH Co.), 1991.05.31, lines 13-18, page 4, lines 4-11, page 6, Figs 1-3 (Family:none)
  - D3: JP 09-306652 A(RICOH Co.), 1997.11.28, lines 22-48, column 3, Fig 1 (Family:none)

### Claims 1,4,5

The subject matter of claims 1,4,and 5 does not appear to involve an inventive step in view of D1 cited in the ISR and D2 cited in the same.

D1 discloses a Curie temperature of a electromagnetic induction heating roller is set to be higher than a fixation temperature.D2 discloses a thickness of a heating roller in an area outside an area corresponding to a small-sized paper is larger than that in the area corresponding to a small-sized paper.

The inventions disclosed in D1 and D2 share the problem in that overheating at the nonsheet passing portion at the time of passing the small-sized paper is suppressed. The person skilled in the art would easily conceive the idea of applying the technical feature employed in D2 to the invention disclosed in D1.

The technical feature that a Curie temperature is lower than a heat-resistant temperature of a heating apparatus is not disclosed in D1 and D2. However, the skilled person would regard the technical feature as a normal option.

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International application No. PCT/JP2004/019690

### Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

### Claim 1.4.5

The subject matter of claim 1 does not appear to involve an inventive step in view of D3 cited in the ISR and D1 cited in the same.

D3 discloses a thickness of a heating roller in an area outside an area corresponding to a small-sized paper is larger than that in the area corresponding to a small-sized paper in an induction heating type heating apparatus.

The inventions disclosed in D3 and D1 share the problem in that overheating at the nonsheet passing portion at the time of passing the small-sized paper is suppressed. The person skilled in the art would easily conceive the idea of applying the technical feature employed in D1 to the invention disclosed in D3.

The technical feature that a Curie temperature is lower than a heat-resistant temperature of the heating apparatus is not disclosed in D3 and D1. However, the skilled person would regard the technical feature as a normal option.

### Claim 2

The subject matter of claim 2 does not appear to involve an inventive step in view of D1 cited in the ISR and D2 cited in the same.

D1 discloses an induction eddy current concentrates on the surface portion of the heating roller by the skin effect (line 20-24, column 6).

#### Claim 3

The subject matter of claim 3 is neither disclosed in any of the documents cited in the ISR nor obvious to a person skilled in the art and is considered to involve an inventive step over the documents cited in the ISR.